

REMARKS

I. Introduction

By the present Amendment, claims 1, 3, and 20 have been amended. Accordingly, claims 1, 3-13, and 16-20 are now pending in the application. Claim 1 is independent.

II. Office Action Summary

In the Office Action of June 28, 2007, the specification was objected to for failing to provide proper antecedent basis for the claimed subject matter. Claims 3 and 20 were objected to because of various informalities. Claims 1, 3-13, 16-19, and 21 were rejected under USC §112, second paragraph as being indefinite for failing to particularly point out and distinctly claim the subject matter regarded as the invention. Claims 1, 5-9, and 13 were rejected under 35 USC §103(a) as being unpatentable over Japanese Patent No. JP 5-3079998 to Hitachi Medical Corporation ("JP '998") in view of U.S. Patent No. 5,128,592 issued to Dean et al. ("Dean"). These rejections are respectfully traversed.

III. Allowable Subject Matter

The Examiner's indication that claims 3, 4, 10-12, and 16-19 would be allowable, if amended to overcome the rejection under USC §112, second paragraph, and rewritten in independent form to include all the limitations of the base claims and any intervening claims, is noted with appreciation.

IV. Objections to the Specification

The specification was objected to for failing to provide proper antecedent basis for the claimed subject matter. Regarding this rejection, the Office Action

indicates that the Specification does not provide a description for the claimed “non-resonant” inverter.

By the present Amendment, Applicants have amended claim 3, in part, to remove this language. Accordingly, the Specification now provides proper antecedent basis for all claimed subject matter.

Withdrawal of this objection is therefore respectfully requested.

V. Objections to the Specification

Claims 3 and 20 were objected to because of various informalities. Regarding this objection, the Office Action indicates that claim 3 improperly depends from claim 2 (which is now canceled). The Office Action further indicates that the claim numbering is wrong, because there is no claim 20.

By the present Amendment, claim 3 has been amended, in part, to correct the improper dependency. Additionally, the claims have been renumbered such that claim 21 is now properly numbered as claim 20.

Withdrawal of this objection is therefore respectfully requested.

VI. Rejections under 35 USC §112

Claims 1, 3-13, 16-19, and 21 were rejected under USC §112, second paragraph as being indefinite for failing to particularly point out and distinctly claim the subject matter regarded as the invention. Regarding this rejection, the Office Action indicates that the term “non-resonant” is not defined by the claim or the specification. The Office Action also indicates that claim 1 recites the phrases “the plural currents” and “the plural windings”, which lack proper antecedent basis.

By the present Amendment, Applicants have revised the language of claim 3 to delete the term "non-resonant". Additionally, claim 3 has been revised to correct the instances of indefiniteness cited in the Office Action.

Withdrawal of this rejection is therefore respectfully requested.

VII. Rejections under 35 USC §103

Claims 1, 5-9, and 13 were rejected under 35 USC §103(a) as being unpatentable over JP '998 in view of Dean. Regarding this rejection, the Office Action indicates that the combination of JP '998 and Dean discloses all of the features recited in, for example, independent claim 1.

By the present Amendment, independent claim 1 has been amended to recite an x-ray generating device that comprises:

- a high voltage transformer for boosting an AC power voltage including a plurality of primary windings connected in parallel to an AC power supply, at least one iron core, and a plurality of secondary windings ;

- a plurality of high voltage rectifier circuits which are connected to outputs of the plurality of secondary windings of the high voltage transformer and converts the outputs into DC outputs, connects the DC in series, and grounds the midpoints of the series connection at a neutral point; and

- an X-ray tube receiving a predetermined tube voltage through a cathode and an anode thereof, respectively connected to a DC output negative terminal and a DC output positive terminal on both ends of the plurality of high voltage rectifier circuits, in which

- wherein a waveform phase difference removing means is provided to remove a difference in waveform and phase occurring between plural currents respectively flowing through plural windings and to remove an unbalanced voltage,

- wherein the waveform phase difference removing means has a hollowed core made of a ferromagnetic material of large permeability.

According to at least one feature of independent claim 1, the waveform phase difference removing means has a hollowed core made of ferromagnetic material of large permeability. This particular feature was previously recited in claim 3. As indicated in the Office Action, the art of record did not provide any disclosure or suggestion for this feature.

It is therefore respectfully submitted that independent claim 1 is allowable over the art of record.

Claims 3-13 and 16-20 depend from independent claim 1, and are therefore believed allowable for at least the reasons set forth above with respect to independent claim 1. In addition, these claims each introduce novel elements that independently render them patentable over the art of record.

VIII. Conclusion

For the reasons stated above, it is respectfully submitted that all of the pending claims are now in condition for allowance. Therefore, the issuance of a Notice of Allowance is believed in order, and courteously solicited.

If the Examiner believes that there are any matters which can be resolved by way of either a personal or telephone interview, the Examiner is invited to contact Applicants' undersigned attorney at the number indicated below.

AUTHORIZATION

Applicants request any shortage or excess in fees in connection with the filing of this paper, including extension of time fees, and for which no other form of payment is offered, be charged or credited to Deposit Account No. 01-2135 (Case: 529.44608X00).

Respectfully submitted,
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